

## CLAIMS

What is claimed is:

1. A set of standards for the temperature calibration of a VTGA, comprising:  
a plurality of ferromagnetic slugs, each of said ferromagnetic slugs having a Curie  
temperature wherein the value of said Curie temperature falls within a preselected range  
of values,

wherein each slug is comprised of an alloy containing an amount of a  
ferromagnetic constituent and an amount of a non-ferromagnetic constituent, and  
wherein the amounts of said ferromagnetic constituent and non-ferromagnetic  
constituent are selected to provide a ferromagnetic slug having a Curie temperature  
within said preselected range of values.

10 2. A set of standards as in claim 1, wherein said preselected range of Curie temps is  
between from about 50 C to about 200 C.

15 3. A set of standards as in claim 1, wherein said ferromagnetic constituent is selected  
from the group consisting of Fe, Co, Ni and Gd.

4. A set standards as in claim 1, wherein said ferromagnetic constituent is Ni and said  
non-ferromagnetic constituent is selected from the group consisting of Al, Cr, Mo, Ti,  
W, Mn, Zn and Cu.

5. A set of standards as in claim 1, wherein said ferromagnetic constituent is Co and said non-ferromagnetic constituent is selected from the group consisting of Cr, and Mo.

6. A set of standards as in claim 1, wherein said ferromagnetic constituent is Fe and said non-ferromagnetic constituent is selected from the group consisting of Al, Cr, Ti, Mo  
5 and Zn.

7. A set of standards as in claim 1, wherein each of said ferromagnetic slugs are annealed to remove spurious magnetic transitions.

8. A set of standards for the temperature calibration of a VTGA, comprising:  
10 a plurality of ferromagnetic slugs, each of said ferromagnetic slugs having a Curie temperature wherein the value of said Curie temperature falls within a preselected range of values,

wherein each slug is comprised of a alloy containing Ni and Cu, and wherein an amount of Cu is within the range of 15% to 28%.

15 9. A set of standards as in claim 8, wherein each of said ferromagnetic slugs are annealed to remove spurious magnetic transitions.

10. A set of standards as in claim 9, wherein each of said ferromagnetic slugs is annealed at approximately 300C for approximately 1 Hr.